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INDUSTRY/OCCUPATION

PROJECTIONS

- 1985 -

FIFTH EDITION

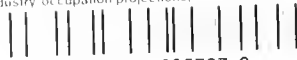
A Labor Market Information Publication

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PART 1: STATE OF MONTANA

INDUSTRY/OCCUPATION PROJECTIONS: 1985

A LABOR MARKET INFORMATION PUBLICATION

STATE OF MONTANA

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in cooperation with
EMPLOYMENT AND TRAINING ADMINISTRATION,
U. S. DEPARTMENT OF LABOR

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FIFTH EDITION

Part 1 State of Montana
Part 2 Billings SMSA
Part 3 Great Falls SMSA

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INTRODUCTION

This publication is the fifth edition of industrial and occupational projections using the census matrix-based methodology developed by the U.S. Department of Labor, Bureau of Labor Statistics. The major basis used in developing the 1985 occupational projection is prior year trends of nonagriculture wage and salary industry employment. These industry employment figures were processed through linear regression, multiple regression and shift and share analysis to forecast the 1985 employment. Areas such as the energy related industries needed further consideration in their expansion forecast, due to more recent industry developments. The total number of jobs by industry is converted to occupational estimates via the census matrix based on the Bureau of Labor Statistics publication "Tomorrow's Manpower Needs". The final step involves estimating job vacancies due to growth and replacement during the projection period. The number of job vacancies due to growth is the difference between 1976 and 1985 levels of employment for each occupation. The replacement rate, which is the measure of job vacancies due to death, retirement, or withdrawal from the labor force, is developed using census information on the Age-Sex composition of employment in each occupation for each state.

In the future an expanded Industry-Occupation Matrix will result from the Occupational Employment Statistics survey operations and will be used to provide information regarding occupational needs.

It has become mandatory that education and training be made relevant to the real world and it is hoped that these projects of future occupational needs will be useful in meeting the requirements of those involved in planning career guidance and training programs. Despite the limitations that these projections share with any economic forecast, long-term manpower projections can serve to give an orientation or perspective on the number and kinds of skills that public and private employers will require in the future.

INDUSTRY EMPLOYMENT: 1985

MINING

Energy development of Montana's coal, gas, and oil resources will add a significant number of jobs in this area. As increased pressure to become energy self-sufficient is felt so should jobs increase as is seen in a three-hundred-twenty percent increase in coal and a sixty-five percent increase in oil and gas. The current import related slow downs in the metallic mining industry seems to have leveled off. Mining has been important in both the political and industrial development of Montana, and will remain so and even have some influence on national politics with regards to energy. Employment levels in 1976 were estimated at 6,630 and showed a significant increase of sixty-two percent to 10,710 by 1985.

CONTRACT CONSTRUCTION

The demand for new housing and energy related large scale projects such as Colstrip #3 and #4 will keep employment opportunities in this area expanding. Construction employment is subject to extreme seasonal fluctuations so it may vary greatly throughout the year. Employment is projected to be 34,722 by 1985, a fifty percent increase over the 1976 figure at 23,136.

MANUFACTURING

Manufacturing represents a small percent of total employment and shows a moderate growth at twenty-two percent from 1976 to 1985. The majority of manufacturing employment is in lumber and woods, food products, and primary metals. The thirty-one percent growth in lumber and woods can be directly related to demand for housing. Foreign competition will still affect primary metals but it will show some gains over 1976 figures. Durable goods will account for 20,489 and non-durable 9,922 by 1985.

TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

All areas in this division will experience growth during this time.

Transportation shows growth in railroads and local transit. As petroleum costs rise the importance of mass transit and rail shipping will increase and employment will likewise increase. The sixty-nine percent increase in communications and public utilities will add about 5,800 jobs in this area. The greatest single cause can be attributed to energy development.

WHOLESALE AND RETAIL TRADE

An increase of 25,000 workers should occur in wholesale and retail trade, Montana's second largest division. Wholesale accounts for seventeen percent and will experience a twenty-eight percent increase between 1976 and 1985. Retail is eighty-three percent and will grow thirty-four percent in this time. Eating and drinking establishments, auto dealers, gas stations, and general merchandise will employ the largest portions of this industry. Employment opportunities should remain high in this area.

FINANCE, INSURANCE, AND REAL ESTATE

This industry is influenced mostly by population and the effect of population growth is readily seen in the forty-five percent increase experienced in finance, insurance, and real estate. This will account for an increase of 5,500 new jobs.

SERVICES

Montana's largest division will provide jobs for 130,008 workers in 1985. This forty percent increase adds 37,045 jobs to the 1976 level. The

SERVICES (Cont.)

industries in this sector are hotels and lodging, personal services, business services, auto repair, entertainment, medical, legal, educational, museums, nonprofit and miscellaneous services. Growth will be experienced in all segments at this division. Increased population growth and greater societal demand will be the cause for this growth.

PUBLIC ADMINISTRATION

This division accounts for only those jobs which cannot be classified in any other industrial classification. It is expected to grow twenty-seven percent to 22,625 jobs by 1985. The majority of this growth will be at the state and local level.

TABLE I

DISTRIBUTION OF GOODS - PRODUCING AND SERVICE-PRODUCING
INDUSTRIES 1976 and 1985

	1976 Employ- ment	Per- cent	1985 Employ- ment	Per- cent	1976-1985 Net Change
TOTAL, ALL INDUSTRIES	314,841	100.0	417,482	100.0	102,641
Goods Producing Industries	87,649	27.8	108,861	26.1	21,212
Ag. Production	32,926	10.5	33,018	7.9	92
Mining	6,630	2.1	10,710	2.6	4,080
Contract Construction	23,136	7.4	34,722	8.3	11,586
Manufacturing	24,957	7.9	30,411	7.3	5,454
Service Producing Industries	227,192	72.2	308,621	73.9	81,429
Ag. Services, Forestry, Fisheries	6,828	2.2	6,820	1.6	-8
Trans., Comm., & Public Utilities	21,387	6.8	30,400	7.3	9,013
Wholesale & Retail Trade	75,909	24.1	100,899	24.2	24,990
Fin., Ins., & Real Estate	12,319	3.9	17,869	4.3	5,550
Services	92,963	29.5	130,008	31.1	37,045
Government	17,786	5.7	22,625	5.4	4,839

TABLE 2

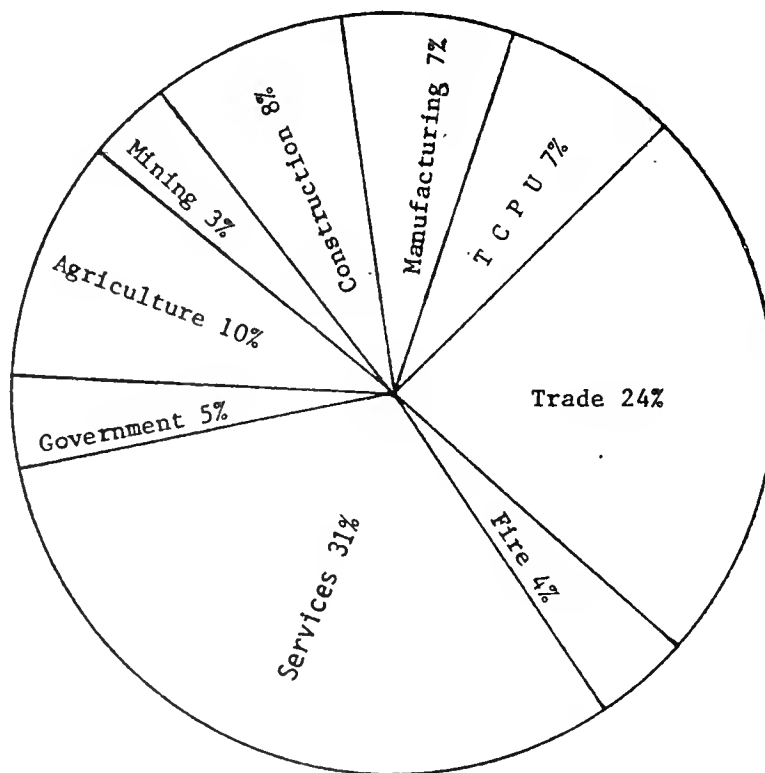
MONTANA EMPLOYMENT BY MAJOR DIVISION
1970, 1976, AND PROJECTED 1985

INDUSTRY	EMPLOYMENT		
	<u>1970</u>	<u>1976</u>	<u>1985</u>
TOTAL, ALL INDUSTRIES	254.7	314.8	417.5
Agriculture, Forestry, Fisheries	34.3	39.8	39.8
Mining	6.7	6.6	10.7
Construction	18.1	23.1	34.7
Manufacturing	24.7	25.0	30.4
Durable Goods	15.8	16.2	20.5
Nondurable Goods	8.9	8.8	9.9
Transportation, Communication, & Public Utilities	18.5	21.4	30.4
Trade	57.1	75.9	100.9
Wholesale	10.4	13.5	17.3
Retail	46.7	62.4	83.6
Finance, Insurance, & Real Estate	9.3	12.3	17.9
Services	71.8	93.0	130.0
Public Administration	14.2	17.8	22.6

TABLE 3

TOTAL EMPLOYMENT
BY MAJOR DIVISION

INDUSTRY	PROJECTED 1985 EMPLOYMENT
TOTAL ALL INDUSTRIES	417,482
Agriculture, Forestry, Fisheries	39,838
Mining	10,710
Construction	34,722
Manufacturing	30,411
Trans., Comm., & Public Utilities	30,400
Wholesale & Retail Trade	100,899
Fin., Ins., & Real Estate	17,869
Services	130,008
Government ^{1/}	22,625



^{1/} Includes those workers engaged in activities unique to government.

TABLE 4

MONTANA
TOTAL EMPLOYMENT BY INDUSTRY
INDUSTRY LISTING FROM STANDARD
INDUSTRIAL CLASSIFICATION MANUAL

	TOTAL EMPLOYMENT		PERCENT CHANGE
	1976	1985	1976-1985
Total all industries	314841	417482	32.60
Agriculture, forestry, fisheries	39754	39838	.21
Agriculture	34103	34513	1.20
Agricultural production	32926	33018	0.28
Services, exc horticulture	910	1127	23.85
Horticultural services	267	368	37.83
Forestry	5573	5247	-5.85
Fisheries	78	78	0.0
Mining.....	6630	10710	61.54
Metal Mining	2488	2289	-8.00
Coal Mining	764	3208	319.90
Crude petroleum and nat ga	2451	4034	64.59
Nonmetallic mining, quarryi	927	1179	27.18
Construction	23136	34722	50.08
General building contracto	5954	9401	57.89
Gen contractors, exc bld	9043	14310	58.24
Special trade contractors	8139	11011	35.29
Manufacturing	24957	30411	21.85
Durable goods	16174	20489	26.68
Ordnance	210	*	-100.00
Lumber and wood product	9724	12703	30.64
Logging	1991	2599	30.54
Sawmill, planng mill, mill	7455	9744	30.70
Misc wood product	278	360	29.50
Furniture and fixtures	173	203	17.34
Stone, clay, glass product	1191	1437	20.65
Glass and glass product	*	*	*
Cement, concrete, plaster	1069	1302	21.80
Structural clay prod	60	74	23.33
Pottery and related prod	11	12	9.09
Misc nonmetallic, stone	49	49	0.0
Primary metal industries	2906	3400	17.00
Blast furnaces, steel wks	*	*	*
Other primary steel	*	*	*
Primary aluminium ind	745	1136	52.48
Other primary nonferrous	2152	2255	4.79

*Less than ten

	TOTAL EMPLOYMENT		PERCENT CHANGE 1976-1985
	1976	1985	
Fabricated metal prod	485	687	41.65
Cutlery, other hardware	50	59	18.00
Fabricated metal prod	371	549	47.98
Screw machine prod	*	*	*
Metal stamping	*	*	*
Misc fabricated metal pr	64	79	23.44
Machinery, exc electrical	412	458	11.17
Engines and turbines	*	*	*
Farm machinery, equip	106	128	20.75
Construction machines	52	77	48.08
Metalworking machinery	*	*	*
Office, accounting mach	*	*	*
Electronic computing equ	*	*	*
Machinery, nec	249	248	-0.40
Electrical machinery	105	235	123.81
Household appliances	*	*	*
Radio, TV, commun equip	*	20	122.22
Electrical machinery, nec	89	208	133.71
Transportation equip	486	783	61.11
Motor vehicle equip	16	36	125.00
Aircraft and parts	13	18	38.46
Ship, boat bldg, repair	39	54	38.46
Railroad equip	*	*	*
Mobile dwelling	40	40	0.0
Cycles, misc transp equip	378	635	67.99
Prof, scientif instruments	79	93	17.72
Scientific instruments	*	*	*
Optical, health serv supp	72	86	19.44
Photo equip and supplies	*	*	*
Watches and clock device	*	*	*
Misc manufacturing	403	490	21.59
Nondurable goods	8783	9922	12.97
Food and kindred prod	3802	4273	12.39
Meat products	719	853	18.64
Dairy products	691	757	9.55
Canning and preserving	46	74	60.87
Grain-mill products	730	733	0.41
Bakery products	564	659	16.84
Confectionary products	*	*	*
Beverage industries	445	442	-0.67
Misc food preparation	607	755	24.38
Tobacco manufacturing	*	*	*
Textile mill products	*	*	*
Knitting mills	*	*	*
Dyeing, finishing textile	*	*	*
Floor coverings	*	*	*
Yarn, fabric mills	*	*	*
Misc text mill products	*	*	*
Apparel, textile products	286	231	-19.23
Apparel and accessories	17	16	-5.88
Misc fabricated products	269	215	-20.07
Paper and allied products	461	829	79.83
Pulp, paper, paperbd mills	375	729	94.40
Paperbd containers, boxes	*	*	*
Misc paper and pulp prod	81	94	16.05
Printing and publishing	2565	2758	7.52
Newspaper publ, printing	1822	1886	3.51
Print, publish exc news	743	872	17.36
Chemical and allied prod	500	695	39.00
Industrial chemicals	396	425	7.32
Plastics, synthetics	*	*	*
Synthetic fibers	*	*	*
Drugs and medicines	22	18	-18.18
Soaps and cosmetics	*	*	*
Paints, varnishes	58	75	29.31

*Less than ten

	TOTAL EMPLOYMENT		PERCENT CHANGE
	1976	1985	1976-1985
Auto repair services	2765	4137	49.62
Auto repair	2331	3170	35.99
Auto services, exc repair	434	967	122.81
Other repair services	1510	1759	17.16
Electrical repair shop	436	521	19.50
Other repair services	1510	1759	16.49
Motion pictures, theaters	821	1037	26.31
Misc entertainment	1645	2886	75.44
Bowling alleys, billiards	556	885	59.17
Misc entertainment	1089	2001	83.75
Medical, other health	21813	34189	56.74
Offices of physicians	2855	4333	51.77
Offices of dentists	1320	2124	60.91
Offices of chiropractors	234	294	25.64
Hospitals	12469	18632	49.43
Convalescent institution	2658	4942	85.93
Health practitioners, nec	1397	2564	83.54
Health services, nec	880	1300	47.73
Legal services	1473	1772	20.30
Educational services	32403	44515	37.38
Elementary, secondary	21010	32072	52.65
Colleges and universitie	9434	9968	5.66
Libraries	270	410	51.85
Educational services, ne	1689	2065	22.26
Museums, art galleries, zoo	43	74	72.09
Nonprofit organizations	6555	8310	26.77
Religious organizations	2071	3229	55.92
Welfare services	2641	3499	32.49
Residential welfare	462	612	32.47
Nonprofit membership	1381	970	-29.76
Private households	2378	2037	-14.34
Other prof, related service	3315	4767	43.80
Eng and arch services	1094	1706	55.94
Accounting, auditing	1502	2139	42.41
Misc prof services	719	922	28.23
Government total	17786	22625	27.21
Federal public admin	8798	9350	6.27
Postal services	2131	1679	-21.21
Other public admin	6667	7671	15.06
State public admin	3113	4665	49.86
Local public admin	5875	8610	46.55

EMPLOYMENT
BY
OCCUPATION: 1985

MONTANA
EMPLOYMENT BY OCCUPATION
1976-1985

Total annual average job openings in Montana are estimated at 23,700 over the study period. Openings due to growth consist of 48% or 11,400 of the total; thus for every 100 new jobs created by industry growth there will be about 104 openings due to separations. Montana's total employment from 1976 through 1985 is projected to increase at an average rate of 3.6% which compares to 2.9% for the U.S. With the self employed, unpaid family workers and farm workers remaining relatively unchanged during the 1976-1985 period, nonagricultural wage and salary workers will make up the bulk of the growth. Nonagricultural wage and salary employment increase for the past four years were as follows: 1976 - 12,900, 1977 - 16,600, 1978 - 12,600 and 1979 - 4,600. The four year average of 11,600 is not strictly comparable to the projected 1976-1985 annual average of 11,400, but indicates the growth is occurring as estimated.

In grouping occupations into type of worker, the white-collar workers trend dominates the relative increase in employment. Employment of service workers is also growing at a significant rate. The rapid growth of white-collar and service workers reflects a technically oriented economy and the continued expansion of service producing industries which employ a large number of these workers. Blue-collar workers experienced a decline in relative distribution from 1960 to 1970, but the current expansion in energy related industries has been a major reason for blue-collar employment growth to become as strong as the other two groups. The farm sector of occupations has been experiencing a decline in the number employed, but the 1976-1985 period anticipates stabilization in employment. Since the other type of workers will continue to increase, farmers and farm workers relative distribution will still continue to decline each year.

PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS

Professional occupations deal with theoretical or practical aspects of such fields as science, engineering, technical work, art, education, medicine, law, and business relations. Most of these occupations require substantial educational preparation, usually at the university level. Technical positions require knowledge of scientific, engineering, mathematical, computer programming, and draft design principles acquired by training through technical institutions, junior colleges, post-high school courses, on-the-job training or experience.

MONTANA
EMPLOYMENT BY OCCUPATION
1976-1985 (Cont.)

PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS (Cont.)

The number of job openings in this group is projected to increase at an annual average of 3,300 with 54% of those jobs being expansion positions. These jobs should account for 13.9% of total job openings through 1985. The annual average growth rate for professional, technical and kindred workers is 3.8%.

The occupation with the highest job needs in this group is elementary school teachers, however, in recent years there has been a state-wide surplus of people with teaching degrees. Other professional, technical and kindred occupations with relatively large job needs are professional nurse, secondary school teachers, accountants and clergy.

MANAGERS AND OFFICIALS

The managers and officials occupational group includes persons concerned with policy making, planning, organizing, staffing, directing and/or controlling activities that are common to many types of organizations as well as activities that require a knowledge of management and operation of a given organization. Employers increasingly require beginning managers to have a college degree. A bachelor's degree in business administration with a major in accounting, economics, or finance is desired by some employers. Other firms seek applicants having technical training in engineering, science, or mathematics. Still others train liberal arts graduates on the job. Advancement to a high-level management job often occurs after several years of progressively more responsible work experience.

Employment in this group will increase by 14,120 from 1976 through 1985, which amounts to an annual average of 3.8%. The number of jobs opening each year is estimated at 3,400 with 46% coming from opening due to growth. The average growth rate for managers and officials is 3.8%.

The occupation in this group with the highest job needs is bank and financial managers with 232 openings yearly. Because managers are employed in a broad range of settings, it is difficult to pinpoint specific occupations that will be in demand; therefore, a relatively high number of yearly job openings (1,891) are found in the classification of all other managers.

MONTANA
EMPLOYMENT BY OCCUPATION
1976-1985 (Cont.)

SALES WORKERS

Included in this major occupational group are occupations which are concerned with selling goods and/or services. The minimum educational requirements for sales careers vary widely. Some sales positions require no formal education, others specify a college degree in a technical or scientific field. Even for routine sales jobs, however, a high school diploma is an asset for the beginner. Training for some sales jobs, such as those in retail stores, is usually received on the job. Some persons combine on-the-job training with home study or courses offered by manufacturers or local educational institutions.

Sales workers represent the smallest number of yearly employment openings, (1,270), and the lowest annual growth rate, (3.4%), for white-collar workers. Also, the expansion of jobs involve only 45% the annual openings, which is the lowest expansion portion of all the major occupational groups.

The job with the highest projected needs is other sales workers with 882 openings yearly through 1985, which is a 69% total of the sales workers. The next highest job needs occur in real estate agents.

CLERICAL WORKERS

Included in this occupational group are clerical personnel whose work involves preparing, transcribing, transferring, systematizing, and preserving communications and records; collating accounts; and distributing information. Also included are clerical workers involved in planning, coordinating or expediting production and the flow of work and workers involved in the clerical aspects of receiving, storing, issuing or shipping of materials, merchandise, supplies, or equipment. All but the most routine clerical positions require graduation from high school. Most employers regard instruction in business subjects as particularly good qualifications.

Employment in this occupation group is projected to increase at an annual average rate of 4.5%. The number of yearly openings amount to 3,780 with 53% being expansion jobs.

From this group, the occupation with the highest annual job needs are secretaries with 870 openings yearly. Other occupations with high demands are bookkeepers, miscellaneous clerical workers, and teachers aides.

MONTANA
EMPLOYMENT BY OCCUPATION
1976-1985 (Cont.)

CRAFTS AND KINDRED WORKERS

This group of skilled workers include those involved in construction, metal-working, printing, transportation, public utilities, and other crafts and kindred work. Also included are mechanics, repairers, and installers. A large portion of the workers learn their trades informally on the job or through planned apprenticeship training. Others learn a skilled trade in vocational, trade, or technical schools. Training and experience in the Armed Forces may be an asset in many of these jobs. A high school education is always helpful and is required by some employers. Also, a high degree of aptitude is most desirable.

Openings due to growth comprise 59% of the 3,060 yearly average openings for this group. Employment in this group is projected to increase 4.6% yearly from 1976 through 1985.

Occupations with high demand include carpenters, electricians, plumbers, auto mechanics, and heavy equipment mechanics.

OPERATIVES

This group of workers is classified as semiskilled. Most of them may operate some type of machinery, equipment, or tool in performing their jobs while others perform tasks requiring use of the hands only. These workers ordinarily receive only brief on-the-job training. The simplest repetitive and routine semiskilled jobs can be learned in a day and mastered in a week. Even those jobs that require a higher degree of skill can be learned in a few months. The ability to learn new jobs quickly, however, is an important qualification for semiskilled workers.

Although employment in this category is expected to increase by 8,940 between 1976 and 1985, the average rate of increase of 3.1% is the lowest of the occupation groups except for farmers. The number of annual job openings is projected at 1,830 yearly for the 1976-1985 period, with 54% of the jobs being expansion positions.

The occupation with the highest demand from this group is truck drivers. Also high in demand are welders, garage workers, mine operatives, sawyers, delivery and route workers.

LABORERS, EXCEPT FARM

These workers are found in practically all types of nonagricultural industries. For example, they may be in construction, in handling freight and materials, in collecting garbage, in gardening, in cutting timber, in filling orders, in stocking merchandise, or in assisting in the trades.

MONTANA
EMPLOYMENT BY OCCUPATION
1976-1985 (Cont.)

LABORERS, EXCEPT FARM

Much of the work that nonfarm laborers perform involves tasks that require little special training. Brief instruction and a few hours of on-the-job training usually are sufficient preparation for a job as a nonfarm laborer.

Laborers, the smallest occupational group, is projected to have one of the smaller increases in the annual average employment rates at 3.2%. Also the number of yearly openings will be a low 950 jobs which will be 48% openings due to growth.

Some labor occupations with relatively high demand are construction laborer, freight and material handlers, groundkeeper, and stock handlers.

SERVICE WORKERS

The occupational group - service workers - include workers concerned with: cleaning and/or serving food and beverages; performing services that require either direct contact or close association with the individual; or the protection of individuals, or of public or private property. Training and skill requirements differ greatly among the various service occupations. Some must have a college degree, some need specialized vocational training, and others have no specific educational requirements for entry, although a high school diploma is always an advantage.

Service workers are the largest major occupational group and have a wide variety of jobs and skills. Employment in this category will increase 4.7% each year for the 1976-1985 period. Openings due to growth comprise 48% of the 4,580 yearly openings.

The occupation with the highest demand from this group is cooks with 613 yearly openings. Other high demand jobs are cleaners and janitors, waiters, child care workers, nurses aides and orderlies, and bartenders.

FARMERS AND FARM WORKERS

The declining employment of this occupational group will experience a stabilization in the 1976-1985 period. Some farm laborers jobs will be lost due to declining openings but an equal number of farm manager positions will be created by expansion.

TABLE 5

MONTANA DISTRIBUTION OF EMPLOYMENT
BY MAJOR OCCUPATIONAL GROUP
1976 AND PROJECTED 1985

MAJOR OCCUPATIONAL GROUP	1976		PROJECTED 1985		PERCENT CHANGE 1976-1985
	EMPLOYMENT	PERCENT DISTRIBUTION	EMPLOYMENT	PERCENT DISTRIBUTION	
TOTAL ALL OCCUPATIONS	314,750	100.0	417,380	100.0	32.6
WHITE COLLAR WORKERS	148,650	47.2	201,960	48.4	35.9
Professional, Technical and Kindred	46,210	14.7	62,170	14.9	34.5
Managers, Officials, and Proprietors	40,780	13.0	54,900	13.2	34.6
Sales Workers	16,990	5.4	22,140	5.3	30.3
Clerical Workers	44,670	14.2	62,750	15.0	40.5
BLUE COLLAR WORKERS	87,180	27.7	116,890	28.0	34.1
Craft and Kindred Workers	39,470	12.5	55,740	13.4	41.2
Operatives	32,120	10.2	41,060	9.8	27.8
Laborers, Except Farmers	15,590	5.0	20,090	4.8	28.9
SERVICE WORKERS	46,790	14.9	66,430	15.9	42.0
FARMERS AND FARM WORKERS	32,130	10.2	32,100	7.7	-0.1

TABLE 6
TOTAL EMPLOYMENT
BY MAJOR OCCUPATIONAL GROUP
1985

MAJOR OCCUPATIONAL GROUP	PROJECTED EMPLOYMENT 1985
TOTAL ALL OCCUPATIONS	417,380
Professional, Technical, and Kindred	62,170
Managers, Officials, and Proprietors	54,900
Sales Workers	22,140
Clerical Workers	62,750
Craft and Kindred Workers	55,740
Operatives	41,060
Service Workers	66,430
Laborers, Except Farm	20,090
Farmers and Farm Workers	32,100

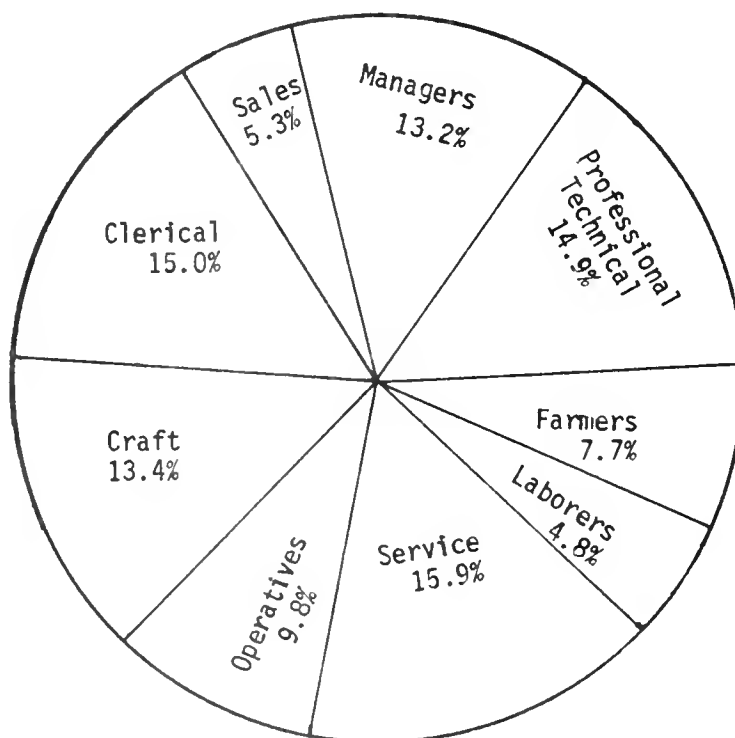


TABLE 7

MONTANA
TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORIES
1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314,750	417,380	32.6
Professional, Technical and Kindred	46,210	62,170	34.5
Engineers, Technical	2,410	3,220	33.6
Life and Physical Scientist	1,480	1,830	23.4
Mathematical Specialist	70	90	33.3
Engineers, Science Tech.	2,850	3,870	35.8
Medical Workers, Exc. Tech.	6,300	9,440	49.8
Health Technol. & Tech.	1,420	2,040	43.1
Technicians, Exc. Health	1,010	1,370	35.0
Computer Specialist	440	590	36.3
Social Scientists	390	570	45.5
Teachers	15,200	20,700	36.1
Writers, Artists, Entertainers	3,040	4,090	34.7
Other Professional, Technical	11,600	14,380	23.9
Managers, Officials, Proprietors	40,780	54,900	34.6
Buyers, Sales, Loan Managers	5,270	8,151	54.8
Administrators, Pub. Inspectors	5,340	7,300	36.7
Other Managers, Officials, Props	30,170	39,450	30.8
Sales Workers	16,990	22,140	30.3
Clerical Workers	44,670	62,750	40.5
Stenographers, Typists, Secretaries	12,320	17,680	43.6
Office Machine Operators	1,200	1,340	11.7
Other Clerical Workers	31,150	43,730	40.4
Craft & Kindred Workers	39,470	55,740	41.2
Construction Craft Workers	13,850	21,180	52.9
Blue Collar Worker Supvr., N.E.C.	3,810	5,310	39.3
Metalworking Craft Workers, Exc. Mec.	1,750	2,360	34.3
Mechanics, Repairers/Installers	11,980	16,180	35.1
Printing Trade Craft Workers	840	830	-1.2
Trans., P.U. Craft	2,030	3,080	51.6
Other Craft, Kindred Workers	5,210	6,820	30.8
Operatives	32,120	41,060	27.8
Operatives, Exc. Transport	20,080	26,190	30.4
Transport Equip. Operatives	12,040	14,880	23.5
Service Workers	46,790	66,430	42.0
Cleaning Service Workers	9,850	14,100	43.1
Food Service Workers	19,420	27,890	43.6
Health Service Workers	6,360	9,910	55.7
Personal Service Workers	6,480	8,960	38.4
Protective & Service Workers	2,860	4,170	46.1
Private Household Workers	1,860	1,410	-24.2
Laborers, Except Farm	15,590	20,090	28.9
Farmers & Farm Workers	32,130	32,100	-0.1
Farmers & Farm Managers	18,220	19,670	7.9
Farm Laborers, Farm Supvrs.	13,900	12,430	-10.6

TABLE 8

MONTANA
ANNUAL AVERAGE JOB OPENINGS
1976 - 1985

MAJOR OCCUPATIONAL GROUP	TOTAL	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS
Total All Occupations	23,770	11,400	12,360
White-Collar Workers	11,750	5,920	5,830
Prof., Technical, and Kindred	3,300	1,770	1,530
Managers, Officials, and Propr.	3,400	1,570	1,830
Sales Workers	1,270	570	700
Clerical Workers	3,780	2,010	1,770
Blue-Collar Workers	5,840	3,300	2,540
Craft and Kindred Workers	3,060	1,810	1,250
Operatives	1,830	990	840
Nonfarm Laborers	950	500	450
Service Workers	4,580	2,180	2,400
Farmers and Farm Workers	1,590	0	1,590

TABLE 9
MONTANA TOTAL ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND LABOR FORCE SEPARATIONS
BY SELECTED OCCUPATIONAL GROUPS
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS	11,400	12,360	23,770	100.0
Professional, Technical and Kindred	1,770	1,530	3,300	13.9
Engineers, Technical	90	40	130	0.6
Life and Physical Scientist	40	30	70	0.3
Mathematical Specialist	*	*	*	0.0
Engineers, Science Tech.	110	50	160	0.7
Medical Workers, Exc. Tech.	350	240	590	2.5
Health Technol. & Tech.	70	40	110	0.5
Technicians, Exc. Health	40	30	70	0.3
Computer Specialist	20	*	20	0.1
Social Scientists	20	10	30	0.1
Teachers	610	600	1,210	5.1
Writers, Artists, Entertainers	120	90	210	0.9
Other Professional, Technical	310	400	710	3.0
Managers, Officials, Proprietors	1,570	1,830	3,400	14.2
Buyers, Sales, Loan Managers	320	180	500	2.1
Administrators, Pub. Inspectors	220	280	500	2.1
Other Managers, Officials, Props	1,030	1,380	2,410	10.1
Sales Workers	570	700	1,270	5.3
Clerical Workers	2,010	1,770	3,780	15.9
Stenographers, Typists, Secretaries	600	500	1,100	4.6
Office Machine Operators	20	30	50	0.2
Other Clerical Workers	1,400	1,240	2,640	11.1
Craft & Kindred Workers	1,810	1,250	3,060	12.9
Construction Craft Workers	810	490	1,300	5.5
Blue Collar Worker Supvr., N.E.C.	170	130	300	1.3
Metalworking Craft Workers, Exc. Mec.	70	50	120	0.5
Mechanics, Repairers/Installers	470	320	790	3.3
Printing Trade Craft Workers	*	20	20	0.1
Trans., P.U. Craft	120	40	160	0.7
Other Craft, Kindred Workers	180	190	370	1.6
Operatives	990	840	1,830	7.7
Operatives, Exc. Transport	680	560	1,240	5.2
Transport Equip. Operatives	310	280	590	2.5
Service Workers	2,180	2,400	4,580	19.3
Cleaning Service Workers	470	640	1,110	4.7
Food Service Workers	940	870	1,810	7.6
Health Service Workers	390	300	690	2.9
Personal Service Workers	280	370	650	2.7
Protective & Service Workers	150	130	280	1.2
Private Household Workers	-50	90	40	0.2
Laborers, Except Farm	500	450	950	4.0
Farmers & Farm Workers	*	1,590	1,590	6.7
Farmers & Farm Managers	160	1,140	1,300	5.5
Farm Laborers, Farm Supvrs.	-160	460	300	1.3

* Denotes occupation with annual average openings of less than 10.

TABLE 10
SELECTED OCCUPATIONS IN MONTANA
HAVING ANNUAL AVERAGE OPENINGS GREATER THAN 100

<u>Occupation</u>	<u>Annual Average Openings</u>
Professional, Technical, Kindred	
Registered Nurses	269
Elementary School Teachers	735
Preschool, Kindergarten	112
Secondary School Teachers	264
Accountants	179
Clergy	116
Managers, Officials, Proprietors	
Bank, Financial Managers	232
Sales Manager, Retail Trade	107
Officials, Administrators, Public	152
School Admins. Elementary, Secondary	158
Office Managers, nec.	158
Restuarant, Cafe, Bar Managers	210
Sales Workers	
Insurance Agents, Brokers, etc.	107
Real Estate Agents, Brokers	145
Clerical Workers	
Secretaries, other	870
Typist	142
Bookkeepers	491
Cashiers	313
Counter Clerks, exc. Food	161
Receptionist	176
Teacher Aides, exc. Monitors	211
Miscellaneous Clerical Workers	507
Craft and Kindred Workers	
Carpenters and Apprentices	583
Electricians and Apprentices	168
Excavating, Grading, Machine Operator	184
Plumbers, Pipefitters, Apprentices	132
Auto Mechanics and Apprentices	232
Heavy Equipment Mechanics	195
Operatives	
Welders and Flame Cutters	124
Garage Workers, Gas Station Atten.	123
Laundry, Dry Cleaning Operator	101
Mine Operatives	108
Sawyers	108
Miscellaneous Machine Operator	124
Delivery and Route Workers	129
Truck Drivers	271

TABLE 10

SELECTED OCCUPATIONS IN MONTANA
HAVING ANNUAL AVERAGE OPENINGS GREATER THAN 100 (Cont.)

<u>Occupation</u>	<u>Annual Average Openings</u>
Service	
Lodging Quarter Cleaners	223
Building Interior Cleaners	438
Janitors and Sextons	447
Bartenders	277
Cooks	613
Dishwashers	116
Food Counter, Fountain Workers	133
Waiters	516
Nurses Aides, Orderlies	369
Practical Nurses	180
Child Care Workers	344
Hairdressers, Cosmetologist	117
Guards	120
Laborers, exc. Farm	
Construction Laborer	169
Freight, Material Handlers	130
Gardeners, Groundskeeper	149
Stock Handlers	128
Farmers and Farm Workers	
Farm Managers	215
Farm Laborers, Wage Workers	171

TABLE 11

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES IN MONTANA
1976-1985

<u>Occupation</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
<u>Professional, Technical, Kindred</u>			
Chiropractors	90	137	52.2
Dentist	471	728	54.6
Optometrists	414	793	91.6
Podiatrists	129	234	81.4
Therapists	535	876	63.7
Veterinarians	105	167	59.0
Clinical Lab Technician	619	934	50.9
Radiologic Technician	306	482	57.5
Airplane Pilots	195	311	59.5
Urban & Regional Planners	64	111	73.4
Elementary School Teachers	6387	10144	58.8
Preschool, Kindergarten	838	1506	79.7
Athletes & Kindred Workers	231	324	56.7
Architects	216	325	50.5
Clergy	1032	1580	53.1
Religious, except Clergy	222	341	53.6
<u>Managers, Official, Proprietors</u>			
Bank, Financial Managers	2073	3523	70.0
Buyer, Wholesale, Retail	395	615	55.7
School Administrator elem, secondary	1379	2318	68.1
Managers, Supertendants, Buildings	398	601	51.0
Railroad Conductors	385	665	72.7
<u>Clerical Workers</u>			
Secretaries, Legal	388	590	52.1
Secretaries, Medical	240	517	115.4
Secretaries, other	8692	13153	51.3
Billing Clerk	397	721	81.6
Meter Readers, Utilities	131	238	81.7
Teachers Aides, exc. Monitors	1203	2606	116.6
Miscellaneous Clerk Workers	2933	6139	109.3
<u>Craft and Kindred Workers</u>			
Carpenters and Apprentices	5767	8770	52.1
Bulldozer Operators	798	1361	70.6
Cement & Concrete Finishers	136	262	92.7
Electricians & Apprentices	1850	2881	55.7
Plumbers, Pipefitters	1336	2061	54.3
Structural Metal Craft Workers	240	450	87.5
Air Cond., Heating, Refrig. Mechanic	345	487	75.4

TABLE 11

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES IN MONTANA
1976-1985 (Cont.)

<u>Occupation</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
<u>Craft and Kindred Workers</u>			
Household Appliance Mechanic	528	874	65.5
Office Machine Repairs	222	422	90.1
Electric Power Line Installer, Repairs	437	858	96.3
Glaziers	136	216	58.8
Opticians, Lens Grinder, Polishers	278	512	84.2
<u>Operatives</u>			
Blasters	80	179	123.8
Drillers, Earth	644	980	52.2
Photographic Process Workers	178	292	64.0
Rail Vehicle Operators	131	296	126.0
Railroad Brake Operators	508	779	53.4
<u>Service Workers</u>			
Lodging Quarters Cleaners, exc. Private	1349	2550	89.0
Building Interior Cleaners, nec.	3334	5154	54.6
Food Counter, Fountain Workers	1274	2048	60.8
Dental Assistants	397	792	99.5
Health Aides, exc. Nursing	673	1196	77.7
Practical Nurses	1384	2272	64.2
Child Care Workers, exc. Private	1990	3748	88.3
Guards	807	1221	51.3
Police & Detectives	1158	1776	52.5
<u>Farmers And Farm Workers</u>			
Farm Managers	860	2015	134.3

TABLE 12

SELECTED OCCUPATIONS HAVING
NEGATIVE GROWTH RATE IN MONTANA
1976 - 1985

<u>Professional, Technical, Kindred</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
Atmospheric, Space Scientist	241	224	-7.1
Farm Management Advisors	105	55	-47.6
Research Workers, nec.	439	350	-20.3
College & University teachers	2232	1769	-20.7
<u>Manager, Official, Proprietors</u>			
Postmasters and Mail Supervisors	296	227	-23.3
School Administrators, College	302	266	-10.9
Officials of Lodges, Unions	275	180	-34.5
<u>Sales Workers</u>			
Newspaper Carrier & Vendor	404	343	-15.1
<u>Clerical Workers</u>			
Stenographers	766	573	-25.2
Key punch Operators	498	392	-21.3
Mail Carriers, Post Office	777	648	-16.6
Postal Clerks	831	616	-25.9
Telegraph Operators	207	168	-18.8
Enumerators & Interviewers	602	395	-65.6
<u>Crafts and Kindred Workers</u>			
Blacksmiths	43	25	-41.9
Compositors and Typesetters	528	474	-10.2
Locomotive Engineer Helpers	75	64	-14.7
Bakers	388	387	-0.3
<u>Operatives</u>			
Grinding Machine Operatives	63	55	12.7
Clothing Ironers & Pressers	310	286	-7.7
Filer, Polisher, Sander, Buffer	150	146	-2.7
Bus Drivers	1547	1302	-15.8
Taxicab Drivers, Chauffeurs	233	228	-2.2
<u>Service Workers</u>			
Baggage Porters & Bellhops	77	40	-48.1
Barbers	577	481	16.6
Elevator Operators	72	67	-6.9
ChildCare Workers, Private	1297	1007	-22.4
Housekeepers, Private	170	109	-35.9
<u>Farmers and Farm Workers</u>			
Farm Laborers, Wage Workers	12042	10020	-16.8

TABLE 13

EMPLOYMENT PROJECTIONS PROGRAM

MONTANA AVERAGE ANNUAL JOB OPENINGS
DUE TO GROWTH AND DUE TO LABOR FORCE
SEPARATIONS BY CENSUS MATRIX OCCUPATIONS
1976-1985

	Total Openings	Openings Due to Growth	Openings Due to Separations
TOTAL ALL OCCUPATIONS	23768	11404	12364
Professional, technical, and kindred	3306	1773	1532
Engineers, technical	131	90	42
Engineers, aero-astronautic	*	*	*
Engineers, chemical	5	*	*
Engineers, Civil	42	23	18
Engineers, electrical	35	27	8
Engineers, industrial	13	9	*
Engineers, mechanical	7	5	*
Engineers, metallurgical	*	*	*
Engineers, mining	*	*	*
Engineers, petroleum	*	*	*
Engineers, sales	*	*	*
Engineers, other	18	15	*
Life and physical scientists	71	38	33
Agricultural scientists	25	14	11
Atmospheric, space scientists	*	*	*
Biological scientists	8	*	5
Chemists	11	5	6
Geologists	25	17	8
Marine scientists	*	*	*
Physicists and astronomers	*	*	*
Life, physical scientists nec	*	*	*
Mathematical specialists	6	*	*
Actuaries	*	*	*
Mathematicians	*	*	*
Statisticians	*	*	*
Engineers, science technicians	167	114	53
Agri biolog tech exc health	10	5	5
Chemical technicians	12	8	*
Drafters	48	35	13
Electrical, electronic tech	14	11	*
Industrial engineering tech	*	*	*
Mathematical techn	*	*	*
Mechanical engineering tech	*	*	*
Surveyors	37	29	8
Engineering, science tech nec	44	24	20
Medical workers, exc tech	584	349	235
Chiropractors	10	5	5
Dentists	38	29	9
Dietitians	17	8	9
Optometrists	55	42	13
Pharmacists	30	9	22
Physicians, MD Osteopaths	78	60	19
Podiatrists	18	11	7
Registered Nurses	269	139	130
Therapists	60	38	22
Veterinarians	8	7	*
Other medical and health	*	*	*

*Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Health technol and tech	110	68	42
Clinical lab technol, tech	54	35	19
Dental hygienists	5	*	*
Health record technol, tech	*	*	*
Radiologic technol, tech	31	20	11
Therapy assistants	*	*	*
Other health technol, tech	16	8	9
Technicians, exc health	66	40	26
Airplane pilots	15	13	*
Air traffic controllers	15	10	6
Embalmers	*	*	*
Flight engineers	*	*	*
Radio operators	23	10	13
Tool programmers, numerical	*	*	*
Other technicians exc health	12	6	5
Computer specialists	21	18	*
Computer programmers	15	13	*
Computer systems analysis	*	*	*
Other computer specialists	*	*	*
Social scientists	27	19	8
Economists	12	8	4
Political scientists	*	*	*
Psychologists	9	6	*
Sociologists	*	*	*
Urban and regional planners	6	5	*
Other social scientists	*	*	*
Teachers	1209	610	599
Adult education teachers	21	11	10
College and univ teachers	-10	-52	42
Elementary school teachers	735	417	318
Preschool, kindergarten	112	74	38
Secondary school teachers	264	137	127
Teachers nec, exc coll, univer	87	22	65
Writers, artists, entertainers	207	117	90
Actors	*	*	*
Athletes and kindred workers	20	14	6
Authors	*	*	*
Dancers	*	*	*
Designers	12	6	6
Editors and reporters	18	9	10
Musicians and composers	52	32	20
Painters and sculptors	23	12	12
Photographers	14	6	8
Public relations specialist	39	19	20
Radio, TV announcers	13	12	*
Writers, artists, entertain nec	11	5	7
Other professional, technical	706	308	398
Accountants	179	78	101
Architects	16	12	*
Archivists and curators	*	*	*
Clergy	116	61	55
Religious, exc clergy	28	13	15
Farm management advisors	-5	-6	*
Foresters, conservationists	36	7	29
Home management advisors	*	*	*
Judges	13	*	11
Lawyers	91	38	53
Librarians	52	18	34
Operations, systems research	*	*	*
Personnel labor relations	36	20	16
Research workers, nec	*	-10	9
Recreation workers	35	21	15
Social Workers	71	28	43
Vocational, ed counselors	38	26	12

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Managers, officials, proprietors	3403	1569	1833
Buyers, sales, loan managers	499	321	178
Bank, financial managers	232	161	71
Credit managers	12	5	7
Buyers, shippers, farm products	21	6	15
Buyers, wholesale, retail	41	24	16
Purchasing agents, buyers, nec	44	23	21
Sales manager, retail trade	107	71	36
Sales manager, exc ret trade	42	31	11
Administrators, pub inspectors	494	217	277
Assess, control, loc pub admin	60	15	45
Construction inspector, pub	8	*	5
Health administrators	59	34	25
Inspectors, exc construct pub	47	18	29
Officials, admins, pub	152	56	96
Postmasters and mail super	7	-8	14
School admin, college	4	-4	8
School admin, elem, secondary	158	104	54
Other managers, officials, props	2410	1031	1379
Funeral directors	19	5	15
Mgrs, superintendents, bldg	87	23	65
Office managers, nec	158	84	74
Officers, pilots, pursers, ship	*	*	*
Officials of lodges, unions	*	-11	9
Railroad conductors	46	31	14
Restaurant, cafe, bar mgrs	210	97	113
Other mgrs, administrators	1891	803	1088
Sales workers	1273	572	700
Advertising agents, sales wrks	24	13	11
Auctioneers	*	*	*
Demonstrators	14	6	7
Hucksters and peddlers	84	23	61
Insurance agents, brokers, etc	107	53	55
Newspaper carrier and vendor	*	-7	6
Real estate agents, brokers	145	57	87
Stock and bond sales agents	16	5	11
Sales and sales workers, nec	882	420	461
Clerical workers	3779	2009	1771
Stenographers, typists, secre	1095	597	498
Secretaries, legal	36	23	13
Secretaries, medical	43	31	12
Secretaries, other	870	495	375
Stenographers	*	-22	25
Typists	142	69	73
Office machine operators	48	15	32
Bookkeeping, billing operators	17	10	7
Calculating machine operators	*	*	*
Computer, peripheral equip	21	15	6
Duplicating machine operators	*	*	1
Keypunch operators	*	-12	14
Tabulating machine operators	*	*	*
Other office machine operators	*	*	*
Other clerical workers	2637	1397	1241
Bank tellers	100	62	39
Billing clerks	48	36	12

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Bookkeepers	491	209	282
Cashiers	313	183	130
Clerical assist, soc welfare	10	8	*
Clerical supervisors, nec	43	24	19
Collectors, bill and account	12	7	5
Counter clerks, exc food	161	52	109
Dispatcher, starter, vehicle	24	12	12
Enumerators and interviewers	-0	-23	15
Estimators, investigators, nec	98	55	47
Expeditors, prod controllers	9	7	*
File clerks	25	11	14
Insurance adjust, examiners	19	12	7
Library attendants, assistant	31	12	19
Mail carriers, post office	8	-14	23
Mail handler, exc post office	27	11	16
Messengers and office helpers	6	*	*
Meter readers, utilities	14	12	*
Payroll, time keeping clerks	29	12	16
Postal clerks	*	-24	24
Proofreaders	*	*	*
Real estate appraisers	27	7	20
Receptionists	176	92	84
Shipping, receiving clerks	41	21	20
Statistical clerks	62	37	25
Stock clerks, store keepers	70	36	34
Teachers aides, exc monitors	211	155	56
Telegraph messengers	*	*	*
Telegraph operators	-1	-4	*
Telephone operators	41	8	33
Ticket station, express agents	23	13	10
Weighers	20	9	10
Misc clerical workers, nec	507	356	151
 Crafts and kindred workers	 3055	 1808	 1247
Construction crafts workers	1302	814	488
Carpenters and apprentices	583	333	249
Brick and stonemasons and annr	15	10	5
Bulldozer operators	83	63	20
Cement and concrete finishers	17	14	*
Electricians and apprentices	168	115	53
Excavating, grading, mach opr	184	121	63
Floor layers, exc tile setters	*	*	*
Painters, construction, maint	71	41	30
Paperhangers	*	*	*
Plasterers and apprentices	5	*	*
Plumbers, pipefitters and appr	132	80	51
Roofer and slaters	14	10	*
Structural metal craft workers	27	23	*
Tilersetters	5	*	*
 Blue collar worker supvr, nec	 298	 167	 131
 Metalworking craft wrkrs exc mec	 119	 66	 53
Blacksmiths	*	*	*
Boilermakers	8	*	5
Heat treaters, annealers, etc	*	*	*
Forge and hammer operators	*	*	*
Job and die setters, metal	*	*	*
Machinists and apprentices	50	29	22
Millwrights	35	22	13
Molders, metal and apprentices	*	*	*
Pattern and model makers	*	*	*
Rollers and finishers, metal	*	*	*

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Sheetmetal workers and appr	24	15	9
Tool and diemakers and appr	*	*	*
Mechanics, repairers, installers	789	466	323
Air cond, heating, refrig mech	45	29	16
Aircraft mechanics	7	5	*
Auto accessories installers	*	*	*
Auto body repairers	33	15	18
Auto mechanics and appr	232	116	117
Data processing mach repairers	6	6	*
Farm implement mechanics	79	45	34
Heavy equip mech, incl deisel	195	126	69
Household appliance mechanics	58	39	19
Loom fixers	*	*	*
Office machine repairers	25	22	*
Radio, television repairers	23	15	8
Railroad, car shop repairers	23	13	10
Other mechanics and appr	61	36	26
Printing trade crafts workers	21	*	22
Bookbinders	*	*	*
Compositors and typesetters	10	-6	16
Electrotypers, stereotypers	*	*	*
Engravers exc photoengravers	*	*	*
Photoengravers, lithographers	*	*	*
Printn press opers & appren	6	*	*
Transportation, pub util craft	155	116	39
Elec pwr line installer, reprs	55	47	8
Locomotive engineers	56	39	17
Locomotive engineer helpers	*	*	*
Power station operators	*	*	*
Telephone installers, repairers	35	25	10
Telephone line instalr, splicer	7	5	*
Other crafts, kindred workers	369	178	191
Bakers	14	*	15
Cabinetmakers	7	*	6
Carpet installers	9	7	*
Crane, derrick, and hoist opr	55	38	17
Decorators, window dressers	27	16	11
Dental laboratory tech	6	*	*
Furniture and wood finishers	*	*	*
Furriers	*	*	*
Glaziers	11	9	*
Inspectors, log and lumber	25	15	11
Inspectors, other	30	17	13
Jewelers and watchmakers	5	*	*
Millers, grain, flour, feed	*	*	*
Motion picture projectionists	12	3	8
Opticians, lens grindr, polishr	35	26	9
Piano, organ tuners, repairers	*	*	*
Shipfitters	*	*	*
Shoe repairers	10	*	9
Sign painters and letterers	3	*	*
Stationary engineers	78	22	55
Stone cutters, stone carvers	*	*	*
Tailors	9	*	7
Upholsterers	15	*	12
Crafts, kindred workers, nec	12	10	*
Operatives	1835	993	842

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Operatives, exc transport	1241	678	562
Semiskilled metalworking	142	86	56
Drill press operatives	*	*	*
Furnace tendrs, smeltrs. pourers	12	5	8
Grinding machine operatives	*	*	*
Heaters, metal	*	*	*
Lathe, milling mach operatives	*	*	*
Metal platers	*	*	*
Other precision mach operators	*	*	*
Punch stamping press operative	*	*	*
Solderers	*	*	*
Welders and flame cutters	124	80	44
Semiskilled textile	*	*	*
Carding, lapping, combing oprs	*	*	*
Knitters, loopers, and toppers	*	*	*
Spinners, twistrs, winders	*	*	*
Weavers	*	*	*
Other textile operatives	*	*	*
Semiskilled packing, inspecting	75	41	34
Checkers, examiners, etc, mfg	10	5	*
Graders and sorters, mfg	10	7	*
Meat wrappers, retail trade	10	5	5
Packer, wrapper, ex meat, produce	43	24	19
Prod grdr, packer, exc fact, farm	*	*	*
Other operatives, exc transport	1023	551	472
Asbestos, insulation workers	6	6	*
Assemblers	21	16	*
Blasters	12	11	*
Bottling, canning operatives	*	*	*
Surveyor helpers	14	13	*
Clothing ironers and pressers	13	*	15
Cutting operatives, nec	19	10	9
Dressmakers, exc factory	54	7	47
Drillers, earth	55	37	17
Dry wall installers, lathes	10	8	*
Oyers	*	*	*
Filer, polisher, sander, buffer	5	*	6
Garage wrkrs, gas station atten	123	69	54
Laundry, dry cleaning oprs, nec	101	50	50
Meat cutters, butchers, exc mfg	23	*	19
Meat cutters, butchers	18	11	7
Milleners	*	*	*
Mine operatives, nec	108	65	43
Mixing operatives	*	*	*
Oilers, greasers, exc auto	18	11	7
Painters, mfg articles	16	8	7
Photographic process workers	21	12	9
Riveters and fasteners	*	*	*
Sailors and deckhands	*	*	*
Sawyers	108	70	39
Sewers and stitchers	19	8	11
Shoemaking machine operatives	*	*	*
Furnace tendr, stokr exc metal	13	*	11
Winding operatives, nec	*	*	*
Misc mach operatives	124	69	55
Operatives, nec	113	61	52
Transport equipment operatives	594	314	280
Boat operators	*	*	*
Bus drivers	34	-27	61

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Conductors and opr, urban rail	*	*	*
Delivery and route workers	129	87	42
Fork lift, tow motor operatives	52	39	13
Rail vehicle operators, nec	25	18	7
Parking attendant	7	*	5
Railroad brake operators	42	30	12
Railroad switch operators	23	14	9
Taxicab drivers, chauffeurs	10	*	10
Truck drivers	271	154	117
 Service workers	 4578	 2182	 2396
Cleaning service workers	1108	472	636
Lodging quartrs cleaners exc pr	223	134	90
Bldg interior cleaners, nec	438	203	236
Janitors and sextons	447	136	311
 Food service workers	 1811	 941	 871
Bartenders	277	129	148
Waiters assistants	34	30	5
Cooks, exc private	613	304	309
Dishwashers	116	54	62
Food counter, fountain workers	133	86	47
Waiters	516	278	237
Food workers, nec, exc private	124	61	63
 Health service workers	 696	 394	 302
Dental assistants	61	43	17
Health aides, except nursing	86	59	27
Health trainees	*	*	*
Lay midwives	*	*	*
Nurses aides, orderlies	369	194	175
Practical nurses	180	99	81
 Personal service workers	 648	 277	 371
Flight attendants	*	*	*
Atten, recreation, amusement	22	11	11
Atten, personal service, nec	26	8	18
Baggage porters and bellhops	*	*	*
Barbers	22	-10	33
Boarding, lodging housekeepers	26	*	23
Bootblacks	*	*	*
Child care workers, exc private	344	196	148
Elevator operators	7	*	8
Hairdressers, cosmetologists	117	38	79
Housekeepers, exc private	38	14	24
School monitors	12	7	6
Ushers, recreation, amusement	*	*	*
Welfare service aides	33	14	19
 Protective and service workers	 274	 146	 128
Crossing guard, bridgetenders	*	*	*
Firefighters	21	16	*
Guards	120	46	74
Marshals and constables	*	*	*
Police and detectives	94	68	26
Sheriffs and bailiffs	39	17	23
 Private household workers	 42	 -46	 88
Child care workers	25	-32	57
Cooks, private	*	*	*
Housekeepers, private	*	-6	8
Laundryers, private household	*	*	*
Pri household cleaners, servants	15	-6	21

* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Laborers, except farm	946	500	447
Animal caretakers, exc farm	32	14	19
Carpenters, helpers	19	13	6
Constr labr, exc carpenter help	169	112	57
Fishers, hunters and trappers	*	*	*
Freight, material handlers	130	88	42
Garbage collectors	39	32	7
Gardenrs, groundkeepr, exc farm	149	46	103
Longshore workers, stevedores	5	*	*
Timbercutting, logging workers	19	*	19
Stock handlers	128	77	50
Teamsters	*	*	*
Vehicle washers, equip cleaners	56	38	18
Warehouse laborers, nec	22	9	13
Other laborers	175	67	109
 Farmers and farm workers	 1592	 *	 1595
Farmers and farm managers	1296	160	1135
Farmers (owners and tenants)	1081	32	1049
Farm managers	215	128	87
Farm laborers, farm supervisors	296	-163	460
Farm labor supervisors	41	18	23
Farm laborers, wage wrkrs	171	-225	396
Farm laborers, unpaid family	83	43	40
Farm laborers, self-empl	*	*	*

TABLE 14

EMPLOYMENT PROJECTIONS PROGRAM
MONTANA
TOTAL EMPLOYMENT BY CENSUS
MATRIX OCCUPATIONS

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314747	417380	32.6
Professional, technical, and kindred	46209	62166	34.5
Engineers, technical	2408	3216	33.6
Engineers, aero-astronautic	*	*	*
Engineers, chemical	70	101	44.3
Engineers, Civil	934	1141	22.2
Engineers, electrical	545	786	44.2
Engineers, industrial	183	260	42.1
Engineers, mechanical	173	222	28.3
Engineers, metallurgical	26	32	23.1
Engineers, mining	71	88	23.9
Engineers, petroleum	70	92	31.4
Engineers, sales	43	64	48.8
Engineers, other	293	430	46.8
Life and physical scientists	1481	1827	23.4
Agricultural scientists	367	490	33.5
Atmospheric, space scientists	241	224	- 7.1
Biological scientists	262	293	11.8
Chemists	176	226	28.4
Geologists	385	538	39.7
Marine scientists	33	40	21.2
Physicists and astronomers	17	16	- 5.9
Life, physical scientists nec	*	*	*
Mathematical specialists	69	92	33.3
Actuaries	*	*	*
Mathematicians	13	17	30.8
Statisticians	56	75	33.9
Engineers, science technicians	2846	3866	35.8
Agri biolog tech exc health	207	253	22.2
Chemical technicians	280	354	26.4
Drafters	693	1007	45.3
Electrical, electronic tech	319	423	32.6
Industrial engineering tech	11	21	90.9
Mathematical techn	*	*	*
Mechanical engineering tech	*	*	*
Surveyors	529	785	48.4
Engineering, science tech nec	807	1023	26.8
Medical workers, exc tech	6301	9438	49.8
Chiropractors	90	137	52.2
Dentists	471	728	54.6
Dietitians	172	246	43.0
Optometrists	414	793	91.6
Pharmacists	509	590	15.9
Physicians, MD osteopaths	932	1468	57.5
Podiatrists	129	234	81.4
Registered nurses	2944	4199	42.6
Therapists	535	876	63.7
Veterinarians	105	167	59.0
Other medical and health	*	*	*

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Health technol and tech	1422	2035	43.1
Clinical lab technol, tech	619	934	50.9
Dental hygienists	26	67	157.7
Health record technol, tech	23	36	56.5
Radiologic technol, tech	306	482	57.5
Therapy assistants	12	13	8.3
Other health technol, tech	436	503	15.4
Technicians, exc health	1013	1368	35.0
Airplane pilots	195	311	59.5
Air traffic controllers	274	360	31.4
Embalmers	*	*	*
Flight engineers	*	*	*
Radio operators	216	310	43.5
Tool programers, numerical	*	*	*
Other technicians exc health	319	378	18.8
Computer specialists	435	593	36.3
Computer programers	302	422	39.7
Computer systems analysis	102	133	30.4
Other computer specialists	31	38	22.6
Social scientists	389	566	45.5
Economists	185	260	40.5
Political scientists	*	*	*
Psychologists	137	190	38.7
Sociologists	*	*	*
Urban and regional planners	64	111	73.4
Other social scientists	*	*	*
Teachers	15203	20696	36.1
Adult education teachers	228	325	42.5
College and univ teachers	2232	1769	-20.7
Elementary school teachers	6387	10144	58.8
Preschool, kindergarten	838	1506	79.7
Secondary school teachers	4375	5613	28.3
Teachers nec, exc coll, univer	1143	1339	17.2
Writers, artists, entertainers	3037	4091	34.7
Actors	18	22	22.2
Athletes and kindred workers	231	362	56.7
Authors	27	39	44.4
Dancers	*	*	*
Designers	184	242	31.5
Editors and reporters	373	449	20.4
Musicians and composers	644	929	44.3
Painters and sculptors	410	518	26.3
Photographers	311	363	16.7
Public relations specialist	395	569	44.1
Radio, TV announcers	249	352	46.7
Writers, artists, entertain nec	204	246	20.6
Other professional, technical	11605	14378	23.9
Accountants	2645	3349	26.6
Architects	216	325	50.5
Archivists and curators	22	20	- 9.1
Clergy	1032	1580	53.1
Religious, exc clergy	222	341	53.6
Farm management advisors	105	55	-47.6
Judges	103	122	18.5
Lawyers	1236	1573	27.4
Librarians	554	716	29.2
Operations, systems research	16	18	12.5
Personnel labor relations	644	831	29.0
Research workers, nec	439	350	-20.3
Recreation workers	402	588	46.3
Social workers	1123	1371	22.1
Vocational, ed counselors	631	860	36.3

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Managers, officials, proprietors	40776	54899	34.6
Buyers, sales, loan managers	5266	8151	54.8
Bank, financial managers	2073	3523	70.0
Credit managers	135	179	32.6
Buyers, shippers, farm products	215	271	26.1
Buyers, wholesale, retail	395	615	55.7
Purchasing agents, buyers, nec	365	567	55.3
Sales manager, retail trade	1343	1979	47.4
Sales manager, exc ret trade	740	1017	37.4
Administrators, pub inspectors	5341	7299	36.7
Assess, control, loc pub admin	486	617	27.0
Construction inspector, pub	39	62	59.0
Health administrators	589	892	51.4
Inspectors, exc construct pub	507	669	32.0
Officials, admins, pub	1743	2245	28.8
Postmasters and mail super	296	227	-23.3
School admin, college	302	269	-10.9
School admin, elem, secondary	1379	2318	68.1
Other managers, officials, props	30169	39449	30.8
Funeral directors	199	245	23.1
Mgrs, superintendents, bldg	398	601	51.0
Office managers, nec	1690	2440	44.4
Officers, pilots, pursers, ship	*	*	*
Officials of lodges, unions	275	180	-34.5
Railroad conductors	385	665	72.7
Restaurant, cafe, bar mgrs	2700	3574	32.4
Other mgrs, administrators	24522	317443	29.5
Sales workers	16989	22136	30.3
Advertising agents, sales wrks	242	360	48.8
Auctioneers	46	49	6.5
Demonstrators	254	310	22.1
Hucksters and peddlers	1362	1569	15.2
Insurance agents, brokers, etc	1445	1920	32.9
Newspaper carrier and vendor	404	343	-15.1
Real estate agents, brokers	1159	1676	44.6
Stock and bond sales agents	185	229	23.8
Sales workers, nec	11892	15680	31.9
Clerical workers	44665	62748	40.5
Stenographers, typists, secre	12315	17683	43.6
Secretaries, legal	388	590	52.1
Secretaries, medical	240	517	115.4
Secretaries, other	8692	13153	51.3
Stenographers	766	573	-25.2
Typists	2229	2850	27.9
Office machine operators	1198	1338	11.7
Bookkeeping, billing operators	127	223	75.6
Calculating machine operators	13	22	69.2
Computer, peripheral equip	426	559	31.2
Duplicating machine operators	44	51	15.9
Keypunch operators	498	392	-21.3
Tabulating machine operators	*	*	*
Other office machine operators	90	91	1.1
Other clerical workers	31152	43727	40.4
Bank tellers	1124	1681	49.6
Billing clerks	397	721	81.6
*Less than ten			

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Bookkeepers	7072	8956	26.6
Cashiers	3513	5166	47.1
Clerical assist, soc welfare	222	290	30.6
Clerical supervisors, nec	686	905	31.9
Collectors, bill and account	148	217	46.6
Counter clerks, exc food	1701	2170	27.6
Dispatcher, starter, vehicle	373	480	28.7
Enumerators and interviewers	602	395	-65.6
Estimators, investigators, nec	1037	1532	47.7
Expeditors, prod controllers	119	180	51.3
File clerks	363	459	26.5
Insurance adjust, examiners	311	421	36.4
Library attendants, assistant	492	596	21.1
Mail carriers, post office	777	648	-16.6
Mail handler, exc post office	273	377	38.1
Messengers and office helpers	173	182	5.2
Meter readers, utilities	131	238	81.7
Payroll, time keeping clerks	313	418	33.6
Postal clerks	831	616	-25.9
Proofreaders	27	37	37.0
Real estate appraisers	230	293	27.4
Receptionists	1963	2795	42.4
Shipping, receiving clerks	561	751	33.9
Statistical clerks	778	1111	42.8
Stock clerks, store keepers	1045	1368	30.9
Teachers aides, exc monitors	1203	2606	116.6
Telegraph messengers	*	*	*
Telegraph operators	207	168	-18.8
Telephone operators	1060	1129	6.5
Ticket station, express agents	334	446	33.5
Weighers	150	235	56.7
Misc clerical workers, nec	2933	6139	109.3
 Crafts and kindred workers	 39471	 55740	 41.2
Construction crafts workers	13845	21175	52.9
Carpenters	5767	8770	52.1
Brickmasons and stonemasons	271	358	32.1
Bulldozer operators	798	1361	70.6
Cement and concrete finishers	136	262	92.7
Electricians	1850	2881	55.7
Excavating, grading, mach opr	2138	3222	50.7
Floor layers, exc tile setters	57	65	14.0
Painters, construction, maint	947	1308	38.1
Paperhangers	*	*	*
Plasterers	36	41	13.9
Plumbers and pipefitters	1336	2061	54.3
Roofer and slaters	155	247	59.4
Structural metal craft workers	240	450	87.5
Tilesetters	106	141	33.0
 Blue collar worker supvr, nec	 3813	 5312	 39.3
 Metalworking craft wrkrs exc mec	 1753	 2355	 34.3
Blacksmiths	43	25	-41.9
Boilermakers	185	204	10.3
Heat treaters, annealers, etc	*	*	*
Forge and hammer operators	*	*	*
Job and die setters, metal	12	18	50.0
Machinists	702	963	37.2
Millwrights	401	597	48.9
Molders, metal	25	23	- 8.0
Pattern and model makers	*	*	*
Rollers and finishers, metal	*	*	*

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Sheet metal workers, tinsmiths	~354	~493	39.3
Tool, diemakers	29	30	3.5
Mechanics, repairers, installers	11978	16176	35.1
Air cond, heating, refrig mech	345	605	75.4
Aircraft mechanics	139	184	32.4
Auto accessories installers	27	23	-14.8
Auto body repairers	689	823	19.5
Auto mechanics	4552	5596	22.9
Data processing mach repairers	59	113	91.5
Farm implement mechanics	931	1338	43.7
Heavy equip mech, incl deisel	2751	3883	41.2
Household appliance mechanics	528	874	65.5
Mechanics, repairers, installers	*	*	*
Loom fixers	222	422	90.1
Office machine repairers	412	549	33.3
Radio, television repairers	452	575	27.2
Railroad, car shop repairers	870	1190	36.8
Other mechanics and apprentice			
Printing trade crafts workers	837	826	- 1.3
Bookbinder	55	56	1.8
Compositors and typesetters	528	474	-10.2
Electrotypers, stereotypers	*	*	*
Engravers exc photoengravers	22	30	36.4
Photoengravers, lithographers	26	34	30.8
Printing press operators	201	228	13.4
Transportation, pub util craft	2032	3080	51.6
Elec pwr line installer, reprs	437	858	96.3
Locomotive engineers	452	804	77.9
Locomotive engineer helpers	75	64	-14.7
Power station operators	31	41	32.3
Telephone installers, repairers	751	979	30.4
Telephone line instalr, splicer	286	334	16.8
Other crafts, kindred workers	5213	6816	30.8
Bakers	388	387	- 0.3
Cabinetmakers	153	168	9.8
Carpet installers	169	228	34.9
Crane, derrick, and hoist opr	680	1021	50.2
Decorators, window dressers	293	442	50.9
Dental laboratory tech	76	110	44.7
Furniture and wood finishers	25	36	44.0
Furriers	*	*	*
Glaziers	136	216	58.8
Inspectors, log and lumber	372	503	35.2
Inspectors, other	421	572	35.9
Jewelers and watchmakers	127	136	7.1
Millers, grain, flour, feed	59	67	13.6
Motion picture projectionists	106	135	27.4
Opticians, lens grindr, polishr	278	512	84.2
Piano, organ tuners, repairers	31	34	9.7
Shipfitters	*	*	*
Shoe repairers	132	138	4.6
Sign painters and letterers	60	67	11.7
Stationary engineers	1144	1349	17.9
Other crafts, kindred workers	*	*	*
Stone cutters, stone carvers			
Tailors	54	64	18.5
Upholsterers	249	279	12.1
Crafts, kindred workers, nec	260	352	35.4

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Operatives, exc transport	20083	26189	30.4
Semiskilled metalworking	2347	3119	32.9
Drill press operatives	11	13	18.2
Furnace tendrs, smelters, pourers	440	481	9.3
Grinding machine operatives	63	55	-12.7
Heaters, metal	*	*	*
Lathe, milling mach operatives	52	56	7.7
Metal platers	19	18	- 5.3
Other precision mach operators	*	*	*
Punch stamping press operative	35	50	14.1
Solderers	*	*	*
Welders and flame cutters	1717	2437	41.9
Semiskilled textile	11	13	18.2
Carding, lapping, combing oprs	*	*	*
Knitters, loopers, and toppers	*	*	*
Spinners, twistors, winders	*	*	*
Weavers	*	*	*
Other textile operatives	*	*	*
Semiskilled packing, inspecting	1076	1445	34.3
Checkers, examiners, etc, mfg	141	188	33.3
Graders and sorters, mfg	114	177	55.3
Meat wrappers, retail trade	180	229	27.2
Packer, wrapper, ex meat, produce	591	805	36.2
Prod grdr, packer, exc fact, farm	50	46	8.0
Other operatives, exc transport	16649	21612	29.8
Asbestos, insulation workers	82	132	61.0
Assemblers	270	413	53.0
Blasters	80	179	123.8
Bottling, canning operatives	81	96	18.5
Surveyor helpers	250	367	46.8
Clothing ironers and pressers	310	286	- 7.7
Cutting operatives, nec	376	463	23.1
Dressmakers, exc factory	506	570	12.7
Drillers, earth	644	980	52.2
Dry wall installers, lathes	103	178	72.8
Dyers	*	*	*
Filer, polisher, sander, buffer	150	146	- 2.7
Garage wrkrs, gas station atten	2696	3317	23.0
Laundry, dry cleaning oprs, nec	874	1329	52.1
Meat cutters, butchers, exc mfg	651	689	5.8
Meat cutters, butchers	309	405	31.1
Milleners	17	14	-17.7
Mine operatives, nec	1575	2164	37.4
Mixing operatives	133	154	15.8
Oilers, greasers, exc auto	335	436	30.2
Painters, mfg articles	102	179	75.5
Photographic process workers	178	292	64.0
Riveters and fasteners	13	10	-23.1
Sailors and deckhands	*	*	*
Sawyers	1584	2210	39.5
Sewers and stitchers	241	311	29.1
Shoemaking machine operatives	*	*	*
Furnace tendr, stokr exc metal	289	316	9.3
Winding operatives, nec	13	24	84.6
Misc mach operatives	2537	3157	24.4
Operatives, nec	2244	2792	24.4
Transport equipment operatives	12043	14877	23.5
Boat operators	19	18	- 5.3
Bus drivers	1547	1302	-15.8

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Conductors and opr, urban rail	*	*	*
Delivery and route workers	2295	3072	33.9
Fork lift, tow motor operatives	802	1149	43.3
Rail vehicle operators, nec	131	296	126.0
Parking attendant	63	83	31.8
Railroad brake operators	508	779	53.4
Railroad switch operators	393	520	32.3
Taxicab drivers, chauffeurs	233	228	- 2.2
Truck drivers	6052	7430	22.8
Service workers	46793	66434	42.0
Cleaning service workers	9851	14098	43.1
Lodging quartrs cleanrs exc pr.....	1349	2550	89.0
Bldg interior cleaners, nec	3334	5154	54.6
Janitors and sextons	5168	6394	23.7
Food service workers	19419	27885	43.6
Bartenders	2900	4956	39.9
Waiters assistants	554	823	48.6
Cooks, exc private	5630	8364	48.6
Dishwashers	1531	2015	31.6
Food counter, fountain workers	1274	2048	60.8
Waiters	6051	8554	41.4
Food workers, nec, exc private	1479	2025	36.9
Health service workers	6364	9911	55.7
Dental assistants	397	792	99.5
Health aides, except nursing	673	1196	77.7
Health trainees	*	*	*
Lay midwives	*	*	*
Nurses aides, orderlies	3904	5649	44.7
Practical nurses	1384	2272	64.2
Personal service workers	6476	8961	38.4
Flight attendants	*	14	133.3
Atten, recreation, amusement	497	595	19.7
Atten, personal service, nec	221	296	33.9
Baggage porters and bellhops	77	40	-48.1
Barbers	577	481	-16.6
Boarding, lodging housekeepers	212	*242	14.2
Bootblacks	*	*	*
Child care workers, exc private	1990	3748	88.3
Elevator operators	72	67	- 6.9
Hairdressers, cosmetologists	1715	2056	19.9
Housekeepers, exc private	518	646	24.7
School monitors	76	135	77.6
Ushers, recreation, amusement	58	61	5.2
Welfare service aides	457	580	26.9
Protective and service workers	2857	4173	46.1
Crossing guard, bridgetenders	*	*	*
Firefighters	395	542	37.2
Guards	807	1221	51.3
Marshals and constables	28	25	-10.7
Police and detectives	1158	1766	52.5
Sheriffs and bailiffs	463	612	32.2
Private household workers	1826	1406	-77.0
Child care workers	1297	1007	-22.4
Cooks, private	*	*	*
Housekeepers, private	170	109	-35.9
Private household workers	1826	1406	-77.0
Launders, private household	10	4	-60.0
Prf household cleaners, servants	340	278	-18.0

*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Laborers, except farm	15593	20093	28.9
Animal caretakers, exc farm	490	611	24.7
Carpenters, helpers	566	683	20.7
Constr labr, exc carpenter help	2430	3439	41.5
Fishers, hunters and trappers	*	*	*
Freight, material handlers	2755	3543	28.6
Garbage collectors	345	635	84.1
Gardenrs, groundkeepr, exc farm	1136	1545	36.0
Longshore workers, stevedores	14	51	264.3
Timbercutting, logging workers	939	943	0.4
Stock handlers	2377	3075	29.4
Teamsters	146	152	4.1
Vehicle washers, equip cleaners	567	908	60.1
Warehouse laborers, nec	869	953	9.7
Other laborers	2952	3551	20.3
 Farmers and farm workers	 32125	 32098	 - 0.1
Farmers and farm managers	18224	19667	7.9
Farmers (owners and tenants)	17364	17652	1.7
Farm managers	860	2015	134.3
Farm laborers, farm supervisors	13901	12431	-10.6
Farm labor supervisors	595	757	27.2
Farm laborers, wage wrkrs	12042	10020	-16.8
Farm laborers, unpaid family	1241	1626	31.0
Farm laborers, self-empl	23	28	21.7

*Less than ten

NATIONAL JOB OUTLOOK IN THE 80'S

NATIONAL JOB OUTLOOK IN THE 80's.

Based on the projections of the Occupational Outlook Handbook, 1980-81 edition, employment is expected to increase in almost all occupations. through the 1980's. Between 1978 and 1990, total employment will rise from 94.4 to 114.0 million workers, or an annual average increase of 1.7 percent. In addition to these nearly 20 million new jobs created between 1980 and 1990, about 47 million additional openings are expected to result as people already working leave the labor force because of family duties, retirement, illness, or death.

White-collar occupations include professional, managerial, sales, and clerical jobs. They already account for over half the work force. The rising demand for people to work in environmental protection, energy development, and medicine will increase the need for many types of professional workers. Managers and clerical workers who are employed by all industries will benefit from the growth of the economy as a whole. And the expansion of retail trade will cause increased employment of sales workers. In addition to roughly 11 million jobs resulting from employment growth in all these occupations, more than 25 million openings will result from deaths and retirements.

Blue-collar occupations include craft, operative, and labor jobs, which account for about 33 percent of all employment. During the 1980's, their growth will be slower than the average for all occupations, but will still result in 5 million openings, and over 11 million job openings will occur from deaths and retirements. Blue-collar occupations are concentrated in mining, manufacturing, and construction. In these industries the use of new production methods will allow more goods to be produced by fewer workers. Skilled blue-collar workers, such as tool-and-die makers and business machine mechanics, are less likely to be displaced by changes in technology than are unskilled workers and employment in those occupations will grow more rapidly than total blue-collar employment.

Service occupations include jobs in cleaning, food, health, personal, and protective services. They are expected to be the fastest growing group of occupations during the 1980's; but because this group is smaller than the white-collar and blue-collar groups, the total number of jobs becoming available will not be as large. In addition to almost 4 million openings due to employment growth, the service occupations will provide about 8 million openings from death and retirements. A larger population with more money to spend and the expansion of businesses will cause greater demand for many services. The employment of food service workers, for example, is expected to increase as people choose to dine out more often, and employment of protective service workers will increase because businesses want better security systems.

Farm occupations comprise the smallest of the occupational groups. Farm employment is expected to decline through the 1980's. The use of labor-saving equipment and more efficient farming methods will raise productivity enough to decrease the need for farmers and farm workers.

TABLE 15

**Fastest Growing Jobs,
1978-90**

Occupation	Annual openings
Bank Clerks	45,000
Bank officers and financial managers	28,000
Business machine repairers	4,200
City managers	350
Computer service technicians	5,400
Construction inspectors	2,200
Dental assistants	11,000
Dental hygienists	6,000
Dining room attendants and dishwashers	37,000
Flight attendants	4,800
Guards	70,000
Health service administrators	18,000
Homemaker-home health aides	36,000
Industrial machinery repairers	58,000
Landscape architects	1,100
Licensed practical nurses	60,000
Lithographers	2,300
Nursing aides, orderlies, and attendants	94,000
Occupational therapists	2,500
Occupational therapy assistants	1,100
Physical therapists	2,700
Podiatrists	600
Respiratory therapy workers	5,000
Speech pathologists and audiologists	3,900
Teacher aides	26,000
Travel agents	1,900

Note: For these occupations, employment in 1990 is projected to be at least 50 percent higher than it was in 1978.

**Jobs With the Most
Openings, 1978-90**

Occupation	Annual openings
Secretaries and stenographers	305,000
Retail sales workers	226,000
Building custodians	180,000
Cashiers	119,000
Bookkeeping workers	96,000
Nursing aides, orderlies, and attendants	94,000
Cooks and chefs	86,000
Kindergarten and elementary teachers	86,000
Registered nurses	85,000
Assemblers	77,000
Waiters and waitresses	70,000
Guards	70,000
Blue-collar worker supervisors	69,000
Local truck drivers	64,000
Accountants	61,000
Licensed practical nurses	60,000
Typists	59,000
Carpenters	58,000
Industrial machinery repairers	58,000
Real estate agents and brokers	50,000
Construction laborers	49,000
Engineers	46,500
Bank clerks	45,000
Private household workers	45,000
Receptionists	41,000
Wholesale trade sales workers	40,000

Note: Replacement needs and growth are projected to cause these occupations to offer the largest numbers of openings. Competition for openings will vary by occupation.

NATIONAL JOB OUTLOOK IN BRIEF

(Based on the Occupational Outlook Handbook, 1980-81 Edition)

**Projected Change in Employment by
Major Occupational Group, 1978-90**

(In thousands)

Occupational Group	Employment			Openings		
	1978	Projected 1990	Percent Change ¹	Total	Growth	Replacements ²
White-collar workers	47,205	58,400	23.6	36,800	11,200	25,600
Professional and technical workers	14,245	16,900	18.3	8,300	2,600	5,700
Managers and administrators, except farm	10,105	12,200	20.8	7,100	2,100	5,000
Sales workers	5,951	7,600	27.7	4,800	1,700	3,100
Clerical workers	16,904	21,700	28.4	16,600	4,800	11,800
Blue-collar workers	31,531	36,600	16.1	16,200	5,100	11,100
Craft workers	12,386	14,900	20.0	7,000	2,500	4,500
Operatives, except transport	10,875	12,500	15.0	5,600	1,600	4,000
Transport operatives	3,541	4,100	16.2	1,700	600	1,100
Nonfarm laborers	4,729	5,100	8.1	2,000	400	1,600
Service workers	12,839	16,700	29.9	12,200	3,800	8,400
Private household workers	1,162	900	-23.2	500	-300	800
Other service workers	11,677	15,800	35.2	11,700	4,100	7,600
Farm workers	2,798	2,400	-15.9	1,300	-400	1,700
Total	94,373	114,000	20.8	66,400	19,600	46,800

¹ Calculated from unrounded figures

² Due to deaths, retirements, and other

separations from the labor force. Does not include transfers out of occupations

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